Class 222 DISPENSING

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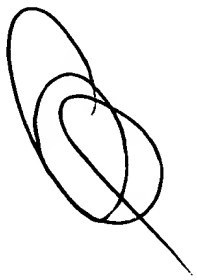
1	**PROCESSES OF DISPENSING**
590	. Molten metal
2	**CHECK CONTROL**
3	**GAS OR VAPOR DISPENSING**
4	. With nongaseous material dispensing
5	. With cutter or punch
6	. Parallel connected, serially used
591	**MOLTEN METAL DISPENSING**
592	. With heating or cooling
593	.. Heating
594	. Flow controllers or assists
595	.. Fluid pressure assist
596	.. Piston displacement
597	.. Closure
598	... Movable about an axis
599	.... Perpendicular to flow
600	... Reciprocating transverse to flow
601	... Stopper operator structure beneath receptacle
602	... Stopper operator structure above receptacle
603	. Gaseous fluid engages molten metal
629	. Submersible dipper or trap chamber
604	. Tilting receptacle
605	.. Teakettle type
606	. With subjacent flow guide
607	.. Unattached
14	**CUTOFF OPERATED BY SELECTIVELY PRESET VOLUME OR RATE OF FLOW-RESPONSIVE MECHANISM**
15	. With means to prevent change of setting during discharge
16	. Operating cycle including reset to starting position
17	. Moving cutoff operating element with variable initial position
18	.. Having plural revolutions
19	... Plural dials
20	.. Cutoff by valve closing
21	. Cutoff by single trapped volume
22	. Cutoff set after discharge begins
23	**WITH RECORDER, REGISTER, INDICATOR, SIGNAL OR EXHIBITOR**
24	. Register with shutter
25	. Plural
26	.. Two or more volume devices
27	.. Register and signal
28	.. With common operating means
29	. Plural scale
30	. Recorder
31	. With motion ratio adjusting means and/or relatively adjustable scale and pointer
32	. With zero-setting mechanism
33	.. Operating cycle including reset to zero
34	.. With means to prevent zero setting during discharge



35	.. With means to prevent discharge prior to zero setting
36	. Totalizer for successive dispenser cycles
37	.. Varying cycles or quantities per cycle
38	.. Reciprocating (including oscillating) dispenser part
39	. Audible
40	. Flow and/or overflow type
41	. Position or extent of motion indicator
42	.. Selection from plural outlets, valves or traps
43	.. Comprising an adjustable stop or stops
44	.. Scale and pointer, with detents
45	.. Flexibly connected indicator and dispenser element
46	.. Common screw means for indicator element and dispenser part
47	.. Indicating element rigidly carried by movable dispenser element
48	... Pivoted or rotary dispensing part
49	... Slidable indicator element projecting from container
50	.... Scale or container
51	. Float-level indicators
52	**AUTOMATIC CONTROL**
53	. Involving conveying conduit jacket and/or inert atmosphere (including vacuum) providing means
54	. Temperature responsive or soluble controller
55	. Constant weight, volume or pressure control by output
56	. Delivery from source controlled by quantity in discharging receiver
57	. By weight, volume or pressure of a second dispensed material
58	. By the weight of the material in the supply container
59	. Cutoff operated by rate of flow responsive mechanism
60	.. Single complete revolution of controller element
61	. Of dispensers with fluid pressure discharge assistance
62	.. Float-controlled pressure liquid
63	. Motor control
64	. Material level control
65	.. Full and/or empty interlock
66	.. Empty container cutoff
67	.. Float-operated flow controllers
68	... Plural
69	... For vent only
638	**INCLUDING TIMER**
639	. For timing dispensing period
640	.. Of beverage or beverage component dispenser
641	... Including electrical timing circuit
642	.. Of discharge assistant
643	... Rotary
644	.. And means for timing the period between dispensing cycles
645	... Of aerosol dispenser
646	.... Including electrical timing circuit
647	..... And mechanical timing element
648	..... And battery power supply
649	. For aerosol dispenser
650	. For plant or animal feed dispenser
651	. For wash cycle ingredient dispenser
652	.. Movably mounted ingredient container
71	**VOLUME OR RATE OF FLOW METERING**
72	. With meter bypass, gas separation, antisyphon priming
73	. With hose pressure relief or maintenance
74	**HOSE OR OTHER MOVABLE DISCHARGE GUIDE INTERLOCKS AND INTERCONNECTIONS**
75	. Switch or motor control and discharge controller actuator
77	**WEIGHING**
78	**SIMULATIONS**

79	. Firearms
80	**WITH CUTTER AND/OR PUNCH**
81	. To form dispensing opening in container
82	.. With discharge assistant
83	.. Mounted for relative motion
83.5	... With sleeve or rest for container cut
85	.. For cutting plural openings
86	... With sleeve or rest for container cut
87	.. With container-destroying means
88	.. With sleeve or rest for container cut
89	.. With nonfriction fit means to secure discharge guide to container
90	... Abutment for container interior
91	... Screw
92	**COLLAPSIBLE WALL-TYPE CONTAINER**
93	. With additional article-holding means
94	. Plural container and/or compartment
95	. With wall-collapsing means
96	.. With interconnected flow controller or closure operating means
97	.. Plural types
98	... Winding and roller types
99	.. Winding type
100	... With casing or support
101	.. Roller type
102	... Plural roller
103	.. Clamping type
104	.. Twisting type
105	. With casing or support
106	. Combined
107	. Nonmetallic
108	**DRIP, LEAKAGE OR WASTE CATCHING OR DISPOSAL**
109	. Return to main supply
110	.. Valved
111	.. With enclosing cover
113	**WITH ILLUMINATOR OR BURNER**
576	**INKWELL**
577	. With support (i.e., inkstand)
578	. Including nongravity feed to dip well
579	.. Spillover type
580	.. Including discharge assistant supporting and movable with dip well
581	... Diaphragm-type discharge assistant
582	... Biased for resetting
583	. Including dip well filled by immersion into supply
584	. Tiltable to fill dip well
585	. Barometric
586	.. Including base supporting removable inverted container
587	... And valve or base-opened closure
588	.. Dip opening below peak level of supply
589	... Including closure or valve for dip well outlet
129	**PLURAL SOURCES, COMPARTMENT, CONTAINERS AND/OR SPACED JACKET**
129.1	. Cabinet-type dispenser for single mixed drinks
129.2	.. One ingredient operates dispensing means for another
129.3	.. With ingredient charge measuring
129.4	... Plural measured charges in single drink
130	. At least one nondispensing
131	.. Jacketed
132	. Three or more diverse sources
133	. Measured discharge from one and indeterminate flow from another
134	. Interconnected discharge volume varying means
135	. With discharge assistant for each source

136 .. Single, operable on material from all sources
137 .. Unitary reciprocating
138 .. Two or more rotary or swinging
139 ... Co-axial
140 .... Vertical axis
141 ..... Single plane
142 ... Parallel axes
142.1 . Hand manipulable shaker type
142.2 .. Selection by relative movement between containers or containers and casing
142.3 .. Containers removable from base or casing
142.4 .. Selection as a result of container shape, configuration or arrangement
142.5 .. Container within container concentrically arranged
142.6 .. With common selector
142.7 ... Interconnected relatively movable closures
142.8 ... Bodily slidable closure
142.9 ... Axially rotary closure for axial outlets
143 . Packing or stacking arrangements
144 . Rotatably mounted assembly
144.5 . With selecting means
145.1 . With common discharge
145.2 .. Including discharge path cleaning
145.3 .. Dispensed product retains identity of individual material (e.g., striped toothpaste)
145.4 .. Movable material discharge guide
145.5 .. Having mixing chamber
145.6 ... Including mixing means
145.7 .. Having variable flow control
145.8 ... For common path
146.1 WITH HEATING OR COOLING MEANS

146.2 . Heating only
146.3 .. Having an aerosol
146.4 .. By steam
146.5 .. By electrical energy
146.6 . Cooling only
147 WITH REFILL PREVENTING MEANS
148 WITH CLEANING MEANS
149 . Element extending through dispenser outlet
150 .. Operated by resilient container walls
151 .. Extending inwardly through container outlet
152 WITH CONVEYING CONDUIT JACKET AND/OR INERT ATMOSPHERE (INCLUDIND VACUUM) PROVIDING MEANS
153.01 WITH LOCK OR FASTENING SEAL

153.02 . Plural

153.03 . Lock actuated by key or tool

153.04 . Lock operation dependent upon dispenser position

153.05 . Single-use fastening seal

153.06 .. Frangible

153.07 ... Pull tab

153.08 .. Cord

153.09 . Inhibiting disassembly

153.1 .. Overcap
153.11 . For a fluid pressure discharge assistant

153.12 .. Maintain dispenser in open position

153.13 . Inhibiting actuation of discharge assistant

153.14 . Inhibiting operation of flow controller or closure

154 INSPECTION DEVICES
155 . External gauge tubes
156 . Sight openings
157 .. Graduated for level determination
158 . Graduated transparent container or trap
159 . Transparent flow-line section
160 MOVABLY MOUNTED SUPPLY CONTAINER
161 . Vibratory (i.e., for agitation of container contents)
162 . Moving relatively to trap, impeller or valve to cause discharge
163 . Adjustable relatively to discharge assistant to vary the discharge volume
164 . Tiltable
165 .. For refilling or changing cartridges or containers
166 .. For gravity discharge
167 . Rotatable
168 .. Vertical axis
168.5 ... Circumferentially arranged measuring or trap chambers
169 .. Peripheral discharge
170 ... With trap chambers
171 ... With sleeve-type discharge controller
172 ... With annular outlet
173 WITH CASING OR SUPPORT
174 . Pole or extension
175 . Body carried and/or operated type
608 . Ambulant
609 .. With assembly or disassembly feature
610 ... Dispensing means detachably carried upon vehicle
611.1 .. With guide or guide line marker
611.2 ... Mortar applying machine
612 .. With height adjustment
613 .. Dispensing means driven or controlled by surface contact
614 ... Ground wheel operated discharge controller
615 ... With variable transmission
616 ... With clutch
617 ... Fluid flow discharge
618 ... Plural ground wheel driven discharge assistants in series
619 ... Ground wheel driven vibrator or jarring means
620 ... Rotary motion of ground wheel to reciprocating, oscillating, or linear motion
621 .... Fluid pump
622 ... Endless conveyer
623 ... Ground wheel driven rotary discharge assistant or rotary agitator
624 .... With adjustable discharge controller
625 ..... Sliding gate or shutter
626 .. Motor operated dispensing means
627 ... Power take off
628 .. Manually actuated fluid pump
179 . With pedal-controlled discharge means
179.5 . Removable for discharge
180 . Bracket or suspension supported
181.1 .. For bottom discharge
181.2 ... Suspension supported

181.3 ... Supported on vertical wall by container integral with wall or by a plate support means
182 . Enclosing cover for actuating parts of discharging means
183 . Jacketed
184 . Extended sidewall base
185.1 . For bottom discharge dispenser supported on horizontal surface
186 . Foot piece or rest
187 WITH WICK OR ABSORBENT MATERIAL FEED
188 WITH FLUID TRAP SEAL FOR INLETS OR OUTLETS (E.G., VENTS)
189.01 WITH FLAME ARRESTER

189.02 WITH SIFTER

189.03 . Integral with container

189.04 . Plural

189.05 . Including moving mechanism

189.06 WITH FILTER (E.G., STRAINER)

189.07 . Portable drainer

189.08 . Plural

189.09 . Associated with vent passage

189.1 . Internally extended outlet pipe (e.g., diptube)
189.11 . With discharge assistant

190 WITH MATERIAL TREATMENT OR CONDITIONING MEANS
191 WITH TOOL OR IMPLEMENT HANDLE
192 COMBINED
630 FLUID FLOW DISCHARGE
631 . Fluid flow generated by manually actuated working member
632 .. Flexible working member
633 ... Bellows or bulb
634 .. Telescoping supply container
635 . Pressurized aerosol container
636 . From movable trap chamber
637 . Open blast
195 WITH GAS AGITATION
196 JARRING AND/OR VIBRATING
196.1 . Hand manipulable shaker type
196.2 .. Movable outlet element
196.3 ... Pattern-type outlet with hole clearers
196.4 ... Caged outlet element
196.5 .. Guided or restrained internal element
197 . Movable or conveyer-type trap chamber
198 . Single outlet bounded by plural vibrating members
199 . Bottom forming member reciprocable (including oscillatable)
200 . Member reciprocable (including oscillatable) transversely of material flow
201 . Discharge rotor is actuator for vibratable wall
202 . Supply container wall flexing
203 .. Flexible wall
204 SIPHON COMBINED WITH DISCHARGE ASSISTANT
205 NONGRAVITY FEED TO TRAP OF VACUUM, GRAVITY, OR MANUAL REMOVAL TYPE
206 RESILIENT WALL

207	. Supply container delivering to receiving chamber
209	. Fluid pressure generating pump or pulsator and/or removable flexible wall closures
210	. With container handle or handgrip
211	. Internally extending outlet pipe
212	. With flow controllers or closures
213	.. Resilient wall actuated
214	. Wall deflecting means
215	. Nonmetallic
216	**AGITATOR AND/OR EJECTOR OPERATING ON MATERIAL IN EITHER (1) CONVEYER TYPE DISCHARGE ASSISTANTS HAVING TRAP CHAMBERS OR TRANSVERSE GROOVES, OR (2) MOVABLE TRAP CHAMBERS**
217	. Mounted on or in conveyer or movable trap chamber
218	.. Radially movable ejector in rotary conveyer or trap chamber
219	... Double-ended ejector
220	. Meshing conveyer trap or groove and ejector rotor
221	. Cam-operated agitator or ejector
222	. Pivoted ejector
223	.. With pivoted striker
224	. Ball or roller form agitator or ejector
225	. Resilient ejector
226	**AGITATOR FOLLOWED BY DISCHARGE ASSISTANT AND/OR INTERCONNECTED DISCHARGE CONTROLLER**
227	. Three or more in series
228	. Flexible or pivoted agitator carried by assistant or controller movable about an axis
229	. Axially aligned, with axially rotary and longitudinally movement
230	. Biasing means constitutes agitator
231	. Free engagement-type connection
232	. Connection through eccentric carried by rotary assistant or controller
233	. One rotary and one reciprocating (including oscillating)
234	.. Reciprocating, nonpivoted
235	... Rotary agitator
236	. All rotary
237	.. Relatively rotatable rings and/or plates
238	.. Parallel axes
239	.. Coaxial
240	... Helix or vane agitator and terminal element
241	... Agitator and terminal screw, helix, or vane
242	... Agitator rigidly mounted on succeeding device
243	. All reciprocating (including oscillating)
244	.. Relatively movable in parallel planes, nonpivoted
245	.. Pivoted and nonpivoted reciprocating elements
246	.. Reciprocable axially of outlet
247	.. Pivoted only
248	... Unitary
249	**FLOATING PISTON WITH PLURAL OR ALTERNATE DISCHARGE**
250	. With discharge volume varying means
251	**WITH DISCHARGE ASSISTANT (E.G., IMPELLER, PUMP, CONVEYER, MOVABLE TRAP CHAMBER, ETC.)**
252	. Plural
253	.. With material-operated differential piston
254	.. Three or more in series
255	.. Pumps only
256	.. Follower combined with casing enclosed impeller
257	... Interconnected with movable nozzle
258	.... Utilizing fluid pressure and/or motor
259	.... Follower and impeller coaxial or parallel and interconnected
260	... Follower and impeller coaxial or parallel and interconnected
261	.... Utilizing fluid pressure and/or motor
262	... Utilizing fluid pressure and/or motor

263 .. Utilizing fluid pressure and/or motor
264 .. Rotors with concentrically arranged sets of axial trap chambers
265 .. In sets
266 ... With selecting means
267 ... With common discharge volume varying means
268 .... Variable capacity rotors
269 ... Container wall sections carrying set units
270 ... With interior material discharge guides between units
271 ... Rotary
272 .... Oppposite ly directed
273 .... Coaxial only
274 ..... Spaced units
275 ... Reciprocating (including oscillating)
276 .... Unitary
277 ..... Pivoted
278 .. Alternatively usable
279 ... Movable or removable baffles or covers for nonused assistant
280 .. Single outlet formed by plural discharge assistants
281 ... Parallel rolls
282 . With discharge volume varying means
283 .. Plural
284 .. Trap chambers in series
285 .. Source and assistant relatively adjustable axially of source outlet
286 ... Sleeve-type discharge controller for outlet
287 .. Adjustment in relatively movable actuator
288 .. Interchangeable, removable or selectively usable discharge assistant or element thereof
289 ... Reversible
290 .. Adjustable deflector for conveyer-type discharge assistant
291 .. Retractable projections
292 .. Interconnected radially movable adjusting means for plural rotor projection or traps
293 .. Rotor having plural adjustable parts of rotor form
294 ... Substantially coextensive disks and/or rings, axially rotary adjustment
295 ... Axially adjustable
296 .... Disk with axially projecting pins
297 .... Cup rotor with horizontal axis
298 .... Groove or trap rotor slidable through discharge channel
299 ..... With channel blocking means
300 ..... With nonrotary sleeve
301 ..... Rose washer bearing
302 .... Material passage parallel to axis of rotation
303 .... Groove or trap blocking means
304 ..... Axial pocket trap
305 .. Movable or conveyer-type trap chamber with capacity varying means
306 ... Single inlet-outlet, adjustable bottom
307 ... Wall with straight line movements
308 .... Screw adjusting means
309 .. Adjustable stroke pump piston, pulsator or follower
310 .. With discharge controller
311 ... Rotor with discharge controller
312 .... Discharge passage between drum-type rotor and controller
313 ..... Biased controller
314 ..... Reciprocating nonpivoted controller
315 .... Cup rotor with horizontal axis
316 .... Sectional discharge controller
317 .... On container side of rotor
318 . With bypass or return to supply
319 . Displacement type
320 . With movable nozzle interconnected therewith

321.1 .. With material supply container and discharge assistant casing
321.2 ... With precompression
321.3 ... With antileak or antisiphon means
321.4 ... With plural-point inlet to casing
321.5 ... Inlet trap (e.g., sump)
321.6 ... Aligned discharge assistant, actuator, container and nozzle
321.7 ... Container-mounted pump
321.8 .... With relatively movable actuator
321.9 .... Pump casing within supply container
322 . Movable element actuator projection through outlet
323 . With container handle or handgrip
324 .. With material supply container and discharge assistant casing
325 . Insertable cartridge or removable container
326 .. With follower
327 ... Part of cartridge or removable container
328 . With material discharge guide on container side of discharge assistant
329 . Removable or movable depending cups for rotors
330 . With plural material outlets
331 .. Of different types
332 . With vent passage for movable trap chamber
333 . Motor operated
334 .. Fluid motor
335 . Actuated by pressure of or suction on material to be dispensed
336 . With biasing means for discharge assistant and/or its casing
337 .. Joint sealing bias only
338 ... Movable encasing wall
339 .. For oscillating discharge assistant
340 .. For reciprocating piston on follower-type impeller
341 ... Biasing means within material chamber or passage
342 . With scraper or wiper for or carried by discharge assistant
343 . With retractable projections
344 . Movable or conveyer-type trap chamber
345 .. With striking or clearing means
346 ... Not part of the supply container outlet
347 ... Plural and/or interconnected with gate at point of trap reentry to supply
348 ... Sectional
349 ... Yielding
350 .... Pivoted
351 .... Reciprocating
352 .... Brush
353 .. Barometric or angle of repose
354 .. With relatively movable cutoff carried by trap chamber
355 .. With cutoff interconnected with trap chamber for operation
356 .. Dipping trap chamber, nonrotary, nonendless belt
357 ... Compound movement
358 ... Oscillating
359 .. With relatively movable actuator
360 ... Intermittent rotary
361 .. Reciprocating (including oscillating) conveyer-type trap chamber
362 ... Oscillating
363 .... Single inlet-outlet
364 ..... Pivot lying in chamber rim
365 ... Plural concentric enlargements on stem
366 ... Single inlet-outlet
367 .. Rotary conveyer-type trap chamber
368 ... Single inlet-outlet
369 .... Scoop type
370 ... Axial inlet and outlet
371 .. Endless belt carried

372	. With material supply container and discharge assistant with casing (e.g., supply container and pump)
373	.. Fluid pressure discharge
375	.. With antileak or antisiphon means or full-stroke mechanism
376	.. With plural-point inlet to casing
377	.. Inlet trap (e.g., sump)
378	.. Aligned discharge assistant, actuator, container and nozzle
379	.. Telescopic outlet and/or discharge-assistant casing inlet
380	.. Valve outlet
381	.. Movable discharge assistant casing
382	.. Internally extending outlet pipe
383.1	.. Container-mounted pump
383.2	... Rotary pump
383.3	... Movable material discharge guide
384	... With piston holding means
385	... Pump or pulsator casing within supply container
386	. Container with follower
386.5	.. Nonrigid follower
387	.. Valved outlet, movable discharge guide and/or gas vent
388	.. With side wall filling opening
389	.. Fluid pressure actuated
390	.. Screw actuated
391	.. Intermittent grip-type actuator
392	.. Ribbon-type follower and/or stand actuator
393	.. Scoop type
394	. Fluid pressure
395	.. Liquid pressure
396	.. With pressure limiting means
397	.. With pressure fluid relieving means
398	.. Telescopic container and/or outlet
399	.. With gas pressure supplying reservoir
400.5	.. Simultaneously operative material discharge valve and pump or pulsator operating member
400.7	.. Unitary mounting for fluid pressure inlet and material outlet
400.8	... With pump or pulsator
401	.. Container-mounted fluid pressure generating pump or pulsator
402	... With piston or pulsator holding means
402.1	.. Valve actuated by nozzle or through valve outlet
402.11	... With actuation disabling means
402.12	... With discharge orifice contamination guard
402.13	... With container end overcap having actuator
402.14	... With means to hold valve open
402.15	... With container-carried actuating lever
402.16	... With bypass for filling or charging
402.17	... With external selector of flowpath
402.18	... Separate inlets for gas and material in duct to valve
402.19	... Alternative flowpath to valve when inverted
402.2	... Pressure lock trap chamber
402.21	... Tilting nozzle

402.22 .... Nozzle inner end valve headed

402.23 .... Valve stem in nozzle

402.24 ... Nozzle sliding in or flexing seal ring

402.25 ... Rod actuator pushed through valve outlet

403 . Film accumulating type
404 . Compound motions
405 . Discharge of material from top of supply
406 . Deformable discharging elements
407 .. Biased
408 . Conveyer type with deflector
408.5 . Agitator rigidly mounted on movable closure
409 . Reciprocating (including oscillating)
410 . Rotary
411 .. Central discharge
412 .. Helically arranged projections (e.g., screws)
413 ... Screw with terminal outlet only
414 .. Peripheral surface material contact
415 . Endless belt
416 SIPHON
420 DROP FORMERS
421 . Grooved closure and/or container neck or outlet
422 . With valve
423 WITH FILM ACCUMULATING MATERIAL REMOVERS
424 WITH MATERIAL RETURN TO SUPPLY
424.5 SUPPLY CONTAINERS WITH TRAPS

425 . With trap chamber cutoffs
426 .. Plural traps, nonserial
427 ... Single rotary cutoff member
428 ... Interconnected discharge controllers
429 .... For simultaneous discharge
430 ... Of different capacities
431 .. With plural discharge
432 ... Plural level discharge volume varying
433 .... Independent discharge controllers
434 .. With discharge volume varying means
435 ... With means to prevent adjustment during discharge
436 ... Trap chambers in series
437 ... Barometric or angle of repose
438 ... With means to change trap chamber volume
439 .... Movable cutoff of cutoff seat carrying elements
440 .... Having straight-line motion
441 .. With container handle or handgrip
442 .. With vent passage for trap
443 .. With bypass or free-flow adjustment
444 .. Single inflow-outflow trap passage
445 .. Nonrigidly interconnected cutoffs
446 ... Free engaging element carried by one cutoff
447 ... Both reciprocating, nonpivoted
448 .. With relatively movable actuator
449 .. With biasing means
450 .. For both inlet and outlet
451 ... Rigidly interconnected or unitary cutoffs
452 .... Rotary and/or pivoted only
453 .... Axially slidable only

454	. With tiltable container trap only
455	.. Supplementary trap
456	.. Single discharge passage forming trap
457	. Barometric or angle of repose trap chamber
457.5	**HAND MANIPULABLE SHAKER WITH REVERSE OUTLET PASSAGE**
459	**STATIONARY AGITATOR**
460	**FUNNEL-TYPE OUTLET**
461	. Movably interconnected
462	. Integral
463	**ROCKABLE OR WEIGHTED**
464.1	**INTERNALLY EXTENDING OUTLET PIPE**
464.2	. Porous or having plural apertures
464.3	. Movable
464.4	.. Weighted
464.5	.. Telescopic
464.6	.. Float
464.7	. Including sump
465.1	**WITH CONTAINER HANDLE OR HANDGRIPS**
466	. Plural handles
467	.. Detachable
468	. Vent in handle
469	. Movable handle interconnected with flow controller or closure
470	. Handle and actuator for flow controller or closure juxtaposed for one handed manipulation
471	.. Nonpivoted actuator reciprocable lengthwise of handle
472	.. Pivoted actuator
473	... On handle
474	... Generally lengthwise of handle
475	. Handle as spout, spout holder or guard
475.1	. Handle and spout for hot liquid decanters (e.g., coffee servers)
476	**SPACED, ALTERNATELY SEATED FLOW CONTROLLERS OR CLOSURES FOR SINGLE OUTLET**
477	**RETARDED OR DELAYED ACTION FLOW CONTROLLERS OR CLOSURES**
478	**WITH PLURAL OPENINGS OR DISCHARGE GUIDES**
479	. Coterminous (barometric)
480	. Hand-manipulable shaker, diverse-type openings (e.g., dredge top)
481	. Having flow controllers or closures
481.5	.. With movable flexible or remotely connected vent pipes
482	.. Plural and/or single for plural openings
483	... Interlocked controllers and/or closures
484	... Interconnected for operation and/or integral
485	.... For plural dispensing outlets
486	..... Variable number exposed and/or variably opened
487	.... Nonrigidly interconnected
488	.. For single passage into which plural passages merge
489	... Screw-type flow controller or closure
490	**SLITTED RESILIENT DIAPHRAGM OR NIPPLE**
491	**OUTLET ELEMENT OPERATED BY PRESSURE OF CONTENTS**
492	. Axially slidable tube, sleeve, or apertured cap
493	.. Axial discharge
494	. Spring form, resilient or compressible flow controller or closure
495	. Reciprocable, nonpivoted
496	.. With biasing means
497	... With additional means to hold against motion
498	**SNAP-ACTING OUTLET ELEMENT**
499	. Axially movable tube, sleeve, or apertured cap

500	**GRAVITY OR INERTIA OPERATED MOVABLE OUTLET ELEMENTS**
501	**MOVABLE OUTLET ELEMENT ACTUATOR PROJECTING THROUGH DISCHARGE GUIDE**
502	**SECTIONAL FLOW CONTROLLER OR CLOSURE**
503	. Interconnected for relative motion
504	**MOTOR OPERATED OUTLET ELEMENT**
505	**WITH RELATIVELY MOVABLE ACTUATOR FOR OUTLET ELEMENT**
506	. Plural flow controllers or closures
507	. Annular, outlet surrounding actuator
508	. For swingable elements in receptacle interior
509	. For nonrotary outlet element reciprocable axially of discharge opening
510	**OUTLET ELEMENT IN ONE WALL, ROD ACTUATOR THROUGH CONTAINER INTERIOR AND ANOTHER WALL**
511	**WITH RESILIENT BIASING MEANS FOR OUTLET ELEMENT**
512	. Joint sealing bias only
513	. For movable tubes, sleeves, or apertured caps
514	.. Axially slidable only
515	. For elements having plural, diverse motions
516	. For rotary elements
517	. For pivoted and swingable elements
518	. For elements reciprocable axially of discharge opening
519	**AXIALLY ROTARY AND LONGITUDINALLY MOVABLE TUBES, SLEEVES, OR APERTURED CAPS**
520	. Axial discharge
521	.. Axial sationary closure plug
522	**AXIALLY SLIDABLE TUBES, SLEEVES, OR APERTURED CAPS**
523	. Sectional, telescoping
524	. With telescopic guide pin
525	. Axial discharge
526	**MOVABLE MATERIAL DISCHARGE GUIDE**
527	. Foldable, bendable, collapsible or flexible
528	.. Closure type
529	.. With flow controller or closure
530	.. Nonuse securing means
531	. Closure type
532	.. With additional flow controller, closure or seal
533	. Swingable
534	.. Into container recess
535	.. From container interior
536	.. With flow controller or closure
537	. With flow controller or closure
538	**NONUSE HOUSING OR SECURING MEANS FOR DISCHARGE GUIDES**
539	. Reversible to extend into or out of container
540	**OUTLET SEATED IN CONTAINER RECESS**
541.1	**WITH FRANGIBLE CLOSURE FOR OUTLET**
541.2	. With cutting or punching or with cutter or puncher accommodating means
541.3	. Closure or closure portion broken by pressure of container content
541.4	.. About line or point of weakness
541.5	. Having reusable closure
541.6	. About line or point of weakness
541.7	.. Adapted for engagement with special tool (e.g., slotted key)
541.8	... Tool serves as closure
541.9	.. With integral gripping means (e.g., pull tab)
542	**WITH PACKING-TYPE SEAL FOR OUTLET**
543	**WITH SINGLE STRAND, CORD OR WIRE CONNECTOR FOR REMOVABLE OUTLET ELEMENTS**
544	**WITH FLOW CONTROLLER OR CLOSURE**
545	. Plural and/or carried by separably attached element

546	.. Cap carried axial plug
547	. With interior material guide or restrictor
548	. Rotary, axially
549	.. With axial longitudinal motion
550	... And additional pivotal motion
551	... Nonapertured screw cap
552	... Screw plug or disc
553	.. Apertured sleeve or cap, nonaxial discharge
554	.. Plug
555	.. Between fixed plates or flanges
556	. Pivoted
557	.. Pivot axis parallel to axis of outlet opening
558	.. Bail type
559	. Reciprocatory
560	.. Arcuate path
561	.. Between fixed plates or flanges
562	. Cap
563	. Plug
564	**WITH INTERIOR MATERIAL GUIDE OR RESTRICTOR**
565	**SIFTER, SPRINKLER OR PLURAL OPENING PATTERNS**
566	**NOZZLES, SPOUTS AND POURING DEVICES**
567	. With separable attaching means
568	.. Screw
569	.. Abutment for container interior
570	.. Rim mounted, interengaging groove and bead or flange
571	. Antidrip
572	. Integral with container walls
573	. Reinforced or with container-connected brace
574	. With folded seam
575	**MISCELLANEOUS (E.G., OUTLET SHAPES)**

FOREIGN ART COLLECTIONS

FOR000	**CLASS-RELATED FOREIGN DOCUMENTS**

DIGESTS

DIG1	**XEROGRAPHY**